Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
A381
R31AC

ARS-71-45
August 1970

# MISCELLANEOUS STUDIES RELATED TO SOYBEAN AND OTHER OILSEED CROPS

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
OCT 21 1970
CURRENT SERIAL RECORDS

A List of Publications and Patents, 1962-1969
Northern Regional Research Laboratory

Agricultural Research Service

UNITED STATES DEPARTMENT OF AGRICULTURE

CONTENTS


| | Page |
|---|---|
| Publications | 3 |
| Microbiological production of lipid materials | 3 |
| Studies on aflatoxin | 4 |
| Soybean-starch glue | 4 |
| Other miscellaneous studies, including biosynthesis, flaxseed sphingo-lipids, tea seed oil | 5 |
| Patents | 6 |


This list of publications and patents represents 8 years of research work. References are arranged chronologically except when they form a series of papers under the same general title or when the subject matter is closely related. All authors cited are members of the Northern Utilization Research and Development Division, Peoria, Ill.; exceptions are noted in footnotes or affiliation listed after author(s)' name.

Other lists of publications are available: Compositional Studies on Oilseeds, Oils, and Meals, ARS 71-39; Engineering Studies on Processing of Oils and Meals, ARS 71-40; Edible Soybean Oil and Related Studies, ARS 71-41; Edible Soybean Protein and Related Studies, ARS 71-42; Chemically Modified Oil Products for Industrial Uses, ARS 71-43; and Reviews and General Articles on Oilseed Crops Research, ARS 71-44.


Northern Utilization Research and Development Division
Agricultural Research Service
United States Department of Agriculture
1815 North University Street
Peoria, Ill. 61604

MISCELLANEOUS STUDIES RELATED TO SOYBEAN AND OTHER OILSEED CROPS

1962-1969

## Publications

[Publications marked (*) are not available for distribution. When requesting specific reprints, please order by number. Use your zip code.]

### Microbiological Production of Lipid Materials

1427 FORMATION OF EXTRACELLULAR SPHINGOLIPIDES BY MICROORGANISMS. III. TRIACETYL DIHYDROSPHINGOSINE, A METABOLIC PRODUCT OF THE YEAST *HANSENULA CIFERRII*
Frank H. Stodola, Lynferd J. Wickerham, Charles R. Scholfield, and Herbert J. Dutton
Arch. Biochem. Biophys. 98(1): 176. July 1962

1469 THE MICROBIOLOGICAL PRODUCTION OF 10-HYDROXYSTEARIC ACID FROM OLEIC ACID
L. L. Wallen, R. G. Benedict, and R. W. Jackson
Arch. Biochem. Biophys. 99(2): 249-253. November 1962

1864 8,9,13-TRIACETOXYDOCOSANOIC ACID, AN EXTRACELLULAR LIPID PRODUCED BY A YEAST
Frank H. Stodola, Ronald F. Vesonder, and Lynferd J. Wickerham
Biochemistry 4(7): 1390-1394. July 1965

2392 3-D-HYDROXYPALMITIC ACID: A METABOLIC PRODUCT OF THE YEAST NRRL Y-6954
R. F. Vesonder, L. J. Wickerham, and W. K. Rohwedder
Can. J. Chem. 46(15): 2628-2629. August 1968

2550 METHYLATION OF FATTY ACIDS IN A METHIONINE-DEPENDENT *AGROBACTERIUM TUMEFACIENS* CONTROLLED WITH EXOGENOUS METHIONINE
Tsuneo Kaneshiro and Paul J. Thomas
Biochim. Biophys. Acta 187(1): 26-35. July 1969

2578 MICROBIAL HYDRATION OF *CIS*-9-ALKENOIC ACIDS
E. N. Davis, L. L. Wallen, J. C. Goodwin, W. K. Rohwedder, and R. A. Rhodes
Lipids 4(5): 356-362. September 1969

## Studies on Aflatoxin

2105 MICROBIAL DETOXIFICATION OF AFLATOXIN
A. Ciegler, E. B. Lillehoj, R. E. Peterson, and H. H. Hall
Appl. Microbiol. 14(6): 934-939. November 1966

2108 AFLATOXIN FORMATION BY *ASPERGILLUS FLAVUS*
C. W. Hesseltine, O. L. Shotwell, J. J. Ellis, and R. D. Stubblefield
Bacteriol. Rev. 30(4): 795-805. December 1966

2425 ISOLATION AND BIOLOGICAL ACTIVITY OF A MICROBIAL CONVERSION PRODUCT OF AFLATOXIN $B_1$
R. W. Detroy and C. W. Hesseltine
Nature 219(5157): 967. August 1968

2449 * MYCOTOXINS
Alex Ciegler and Eivind B. Lillehoj
Advan. Appl. Microbiol. 10: 155-219. 1968

2593 SURVEY OF CEREAL GRAINS AND SOYBEANS FOR THE PRESENCE OF AFLATOXIN. II. CORN AND SOYBEANS
Odette L. Shotwell, C. W. Hesseltine, H. R. Burmeister, W. F. Kwolek,[1] Gail M. Shannon, and H. H. Hall
Cereal Chem. 46(5): 454-463. September 1969

## Soybean-Starch Glue

1793 LOW COST PROTEIN GLUE FOR SOUTHERN PINE PLYWOOD
F. B. Weakley and C. L. Mehltretter
Forest Prod. J. 15(1): 8-12. January 1965.

1840 LOW-COST PROTEIN GLUE IS WATER RESISTANT
F. B. Weakley, Patricia A. Traxler, and C. L. Mehltretter
Plywood Mag. 5(11): 46-47. May 1965

---

[1]Biometrical Services, Agricultural Research Service, U.S. Department of Agriculture, Peoria, Ill.

Other Miscellaneous Studies (Including Biosynthesis, Flaxseed Sphingo-lipids, Tea Seed Oil)

100-C * BIOCHEMISTRY OF THE SPHINGOLIPIDS. XIV. INOSITOL LIPIDS OF FLAXSEED
H. E. Carter, D. S. Galanos, H. S. Hendrickson, Barbara Jann, Teishi Nakayama, Yasuo Nakazawa, and Brian Nichols
University of Illinois, Urbana[2]
J. Amer. Oil Chem. Soc. 39(2): 107-115. February 1962

35-F LA REAZIONE FITELSON: IDENTIFICAZIONE DELLA STRUTTURA DELLA TEASINA [FITELSON'S REACTION, IDENTIFICATION OF TEASINE STRUCTURE]
P. Capella, E. Fedeli, M. Cirimele, and G. Jacini
Experiment Station for the Fats and Oils Industries, Milan, Italy[3]
Riv. Ital. Sostanze Grasse 40(6): 296-299. June 1963

2173 METABOLIC CONVERSIONS AND THE POSITIONAL DISTRIBUTIONS IN LIVER LECITHIN OF SOME UNNATURAL DIENOIC ACIDS IN THE RAT
Howard W. Sprecher,[4] H. J. Dutton, F. D. Gunstone,[5] P. T. Sykes,[5] and Ralph T. Holman[6]
Lipids 2(2): 122-126. March 1967

---

[2]Report of research work done by an outside agency under contract with the U.S. Department of Agriculture and supervised by the Northern Utilization Research and Development Division.

[3]Report of research work supported with funds provided by the U.S. Department of Agriculture under the authority of U.S. Public Law 480, 83d Congress, and sponsored by NURDD.

[4]The Ohio State University, Columbus.

[5]University of St. Andrews, Fife, Scotland.

[6]The Hormel Institute, Austin, Minn.

## Patents

[These patents are assigned to the Secretary of Agriculture. Printed copies of patents may be obtained only by purchase (50 cents each) from the Commissioner of Patents, U.S. Patent Office, Washington, D.C. 20231. Order by number, do not send stamps. Use your zip code.]

### Studies on Aflatoxin

MICROBIOLOGICAL SCREENING PROCESS FOR AFLATOXIN
Harland R. Burmeister
U.S. Patent 3,360,441. December 26, 1967

MICROBIOLOGICAL DECONTAMINATION OF AFLATOXIN-CONTAMINATED EDIBLES
Alex Ciegler and Eivind B. Lillehoj
U.S. Patent 3,428,458. February 18, 1969

### Soybean-Starch Glue

PROTEIN-POLYMERIC DIALDEHYDE COMPOSITIONS AND PROCESS OF COATING A BASE THEREWITH
Francis B. Weakley and Charles L. Mehltretter
U.S. Patent 3,188,223. June 8, 1965

PROTEIN GLUE FOR SOUTHERN PINE PLYWOOD
Francis B. Weakley and Charles L. Mehltretter
U.S. Patent 3,329,518. July 4, 1967

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Northern Regional Research Laboratory
1815 North University Street
Peoria, Ill. 61604

---

Official Business
Penalty for Private Use, $300